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1 Cloth & deformable bodies: Feel the "fabric": an audio-haptic interface

G. Huang, D. Metaxas, M. Govindaraj

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An objective fabric modeling system should convey not only the visual but also the haptic and audio sensory feedbacks to remote/internet users via an audio-haptic interface. In this paper we develop a fabric surface property modeling system consisting of a stylus based fabric characteristic sound modeling, and an audio-haptic interface. By using a stylus, people can perceive fabrics surface roughness, friction, and softness though not as precisely as with their bare fingers. The audio-haptic int ...

<sup>2</sup> Predicting the drape of woven cloth using interacting particles

David E. Breen, Donald H. House, Michael J. Wozny

July 1994 Proceedings of the 21st annual conference on Computer graphics and interactive techniques

Full text available: pdf(483.23 KB) ps(5.47 MB)

Additional Information: full citation, abstract, references, citings, index terms

We demonstrate a physically-based technique for predicting the drape of a wide variety of woven fabrics. The approach exploits a theoretical model that explicitly represents the microstructure of woven cloth with interacting particles, rather than utilizing a continuum approximation. By testing a cloth sample in a Kawabata fabric testing device, we obtain data that is used to tune the model's energy functions, so that it reproduces the draping behavior of the original material. Photographs, ...

Keywords: Kawabata Evaluation System, cloth, drape, particle systems, physically-based modeling

<sup>3</sup> Predicting reflectance functions from complex surfaces

Stephen H. Westin, James R. Arvo, Kenneth E. Torrance

July 1992 ACM SIGGRAPH Computer Graphics, Proceedings of the 19th annual conference on Computer graphics and interactive techniques, Volume 26 Issue 2

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Keywords: BRDF, Monte Carlo, anisotropic reflection, spherical harmonics

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Luis Rene Contreras, Chirag Modi, Arunkumar Pennathur

December 2002 Proceedings of the 34th conference on Winter simulation: exploring new frontiers

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This paper presents results from a case study in predictive maintenance at a distribution warehouse. A simulation model was built with ARENA<sup>TM</sup> 5.0 for integrating predictive maintenance strategies with production planning strategies, for a conveyor system. Equipment health was monitored using condition-based parameters such as temperature and vibration for mechanical and electrical components such as rollers, electrical motors, and gearboxes. This diagnostic information was ...

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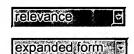
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David E. Breen, Donald H. House, Michael J. Wozny

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Keywords: Kawabata Evaluation System, cloth, drape, particle systems, physically-based modeling

2 Applications of visualization: Ideal, real and virtual textile structure modelling and visualization

Miloslav Kosek, Tomas Mikolanda, Bohumila Koskova

November 2004 Proceedings of the 3rd international conference on Computer graphics, virtual reality, visualisation and interaction in Africa

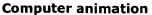
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Usually the software for textile visualization uses ideal model based on simplified structure assumptions that may not be in a good agreement with reality. Real model reconstructs a small volume of structure from 2D parallel cuts. Proposed virtual model joins both the models. In general, any structure parameter consists of two parts: fixed and variable. Specific statistical methods make possible to determine or generate both the components, if there are many photographs of random cuts. The co ...

**Keywords**: FFT, OpenGL, VRML, image processing, virtual reality

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Keywords: BRDF, Monte Carlo, anisotropic reflection, spherical harmonics

<sup>5</sup> Tangible ideas for children: materials sciences as the future of educational technology Michael Eisenberg



June 2004 Proceeding of the 2004 conference on Interaction design and children: building a community

Full text available: pdf(490.58 KB)

Additional Information: full citation, abstract, references, index terms

Traditionally, the notion of "educational technology" has been equated with "educational computing". While computer technology is, and will continue to be, a central focus of educational technology, its importance is likely to be rivaled in the coming generation by developments in materials science. This paper represents an early attempt to discuss the role of novel materials in educational settings, and in children's lives more generally. We discuss a variety of fascinating new materials, all o ...

Keywords: educational technology, materials science

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